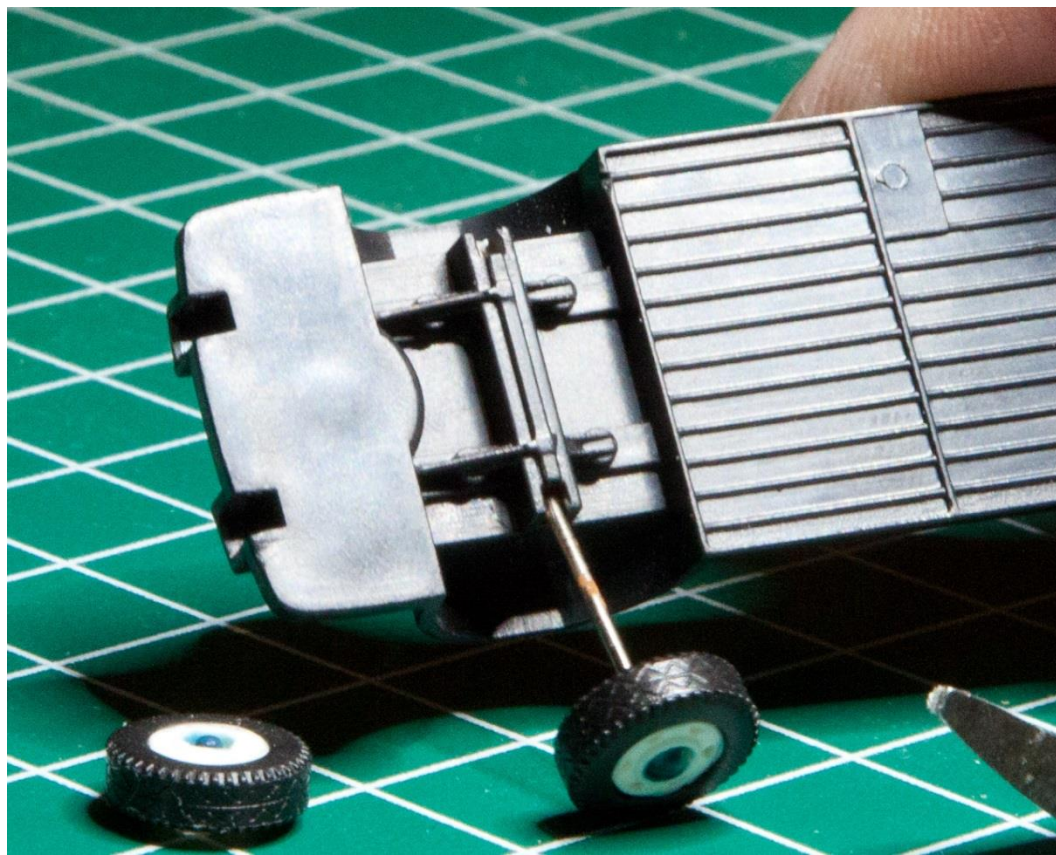


Faller Car System Conversion Part II

Steering Mechanism

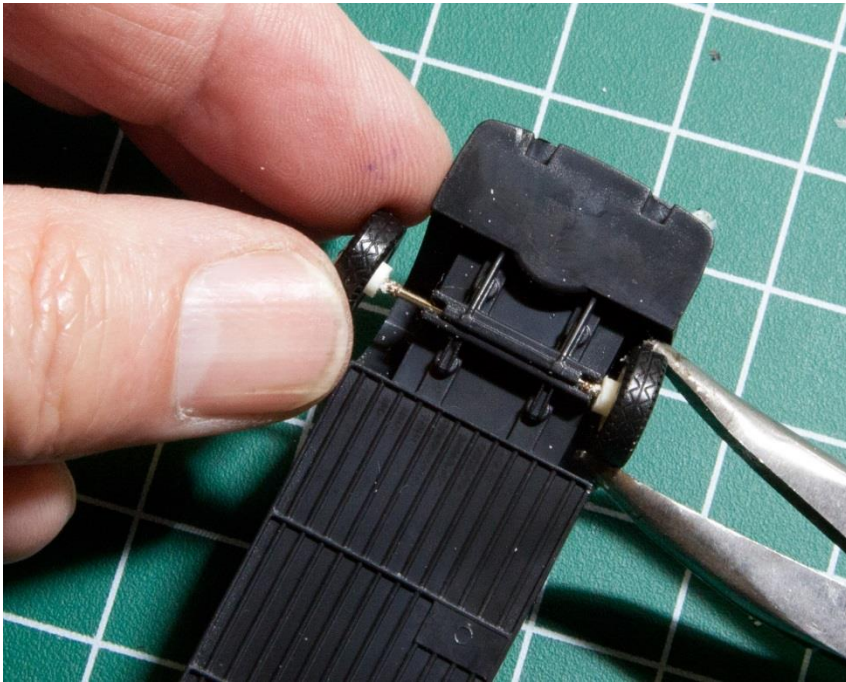


SECTION THREE:

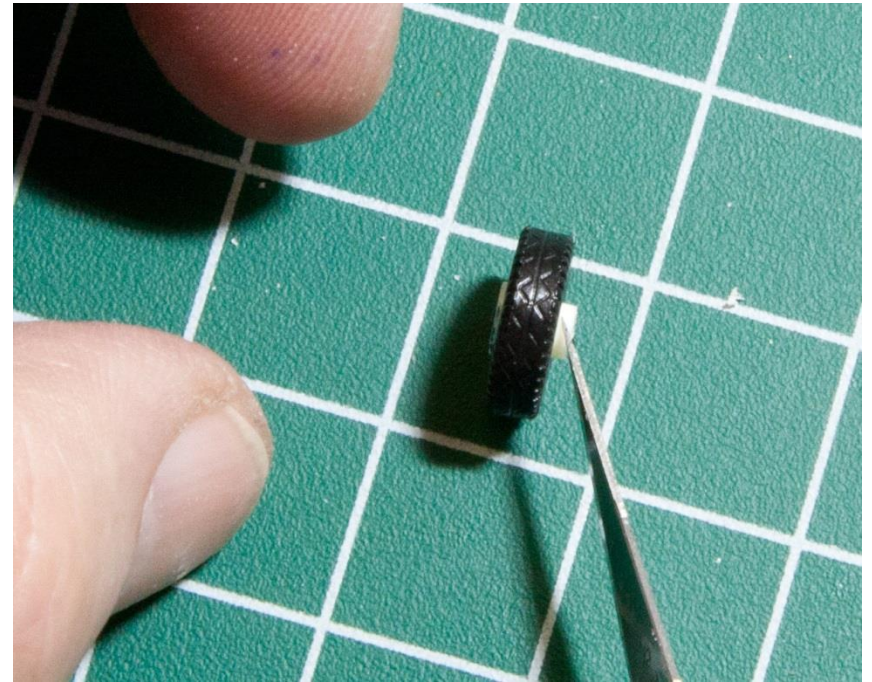
FRONT OF THE BUS

Building the Steering Mechanism

Remove the Wheels from the Static Bus- Pulling Straight Out

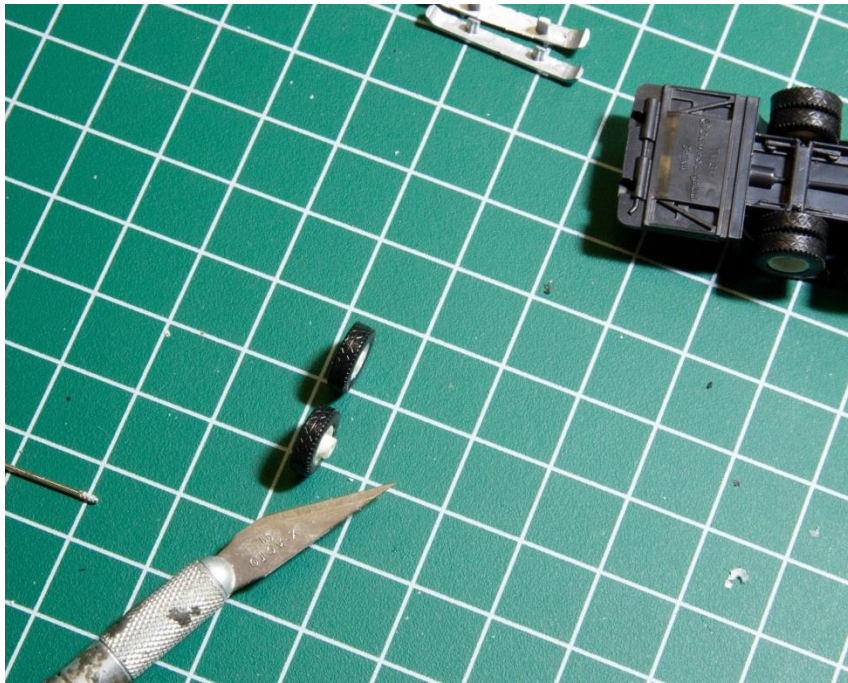


Remove this portion of the Hub



Adding Wheels to the Steering

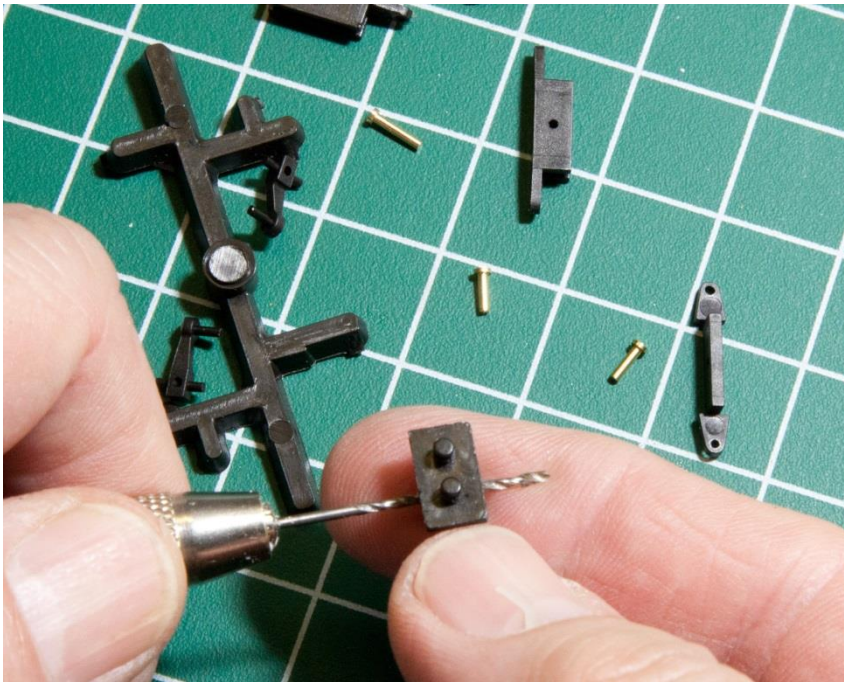
**Before and After the Hub Reduced
to be Flush with the Tire**



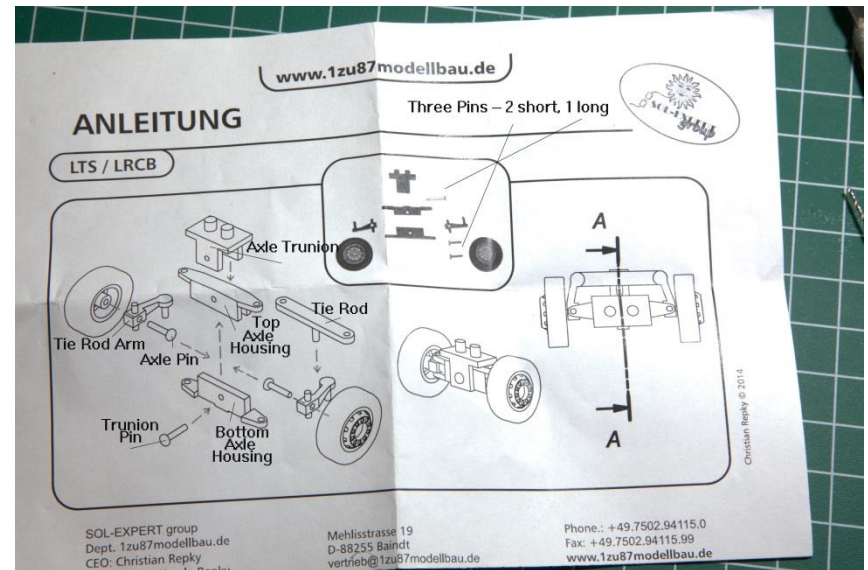
**The Tie Rod Arm is Attached to the
Wheel Hub using the Axle Pins**



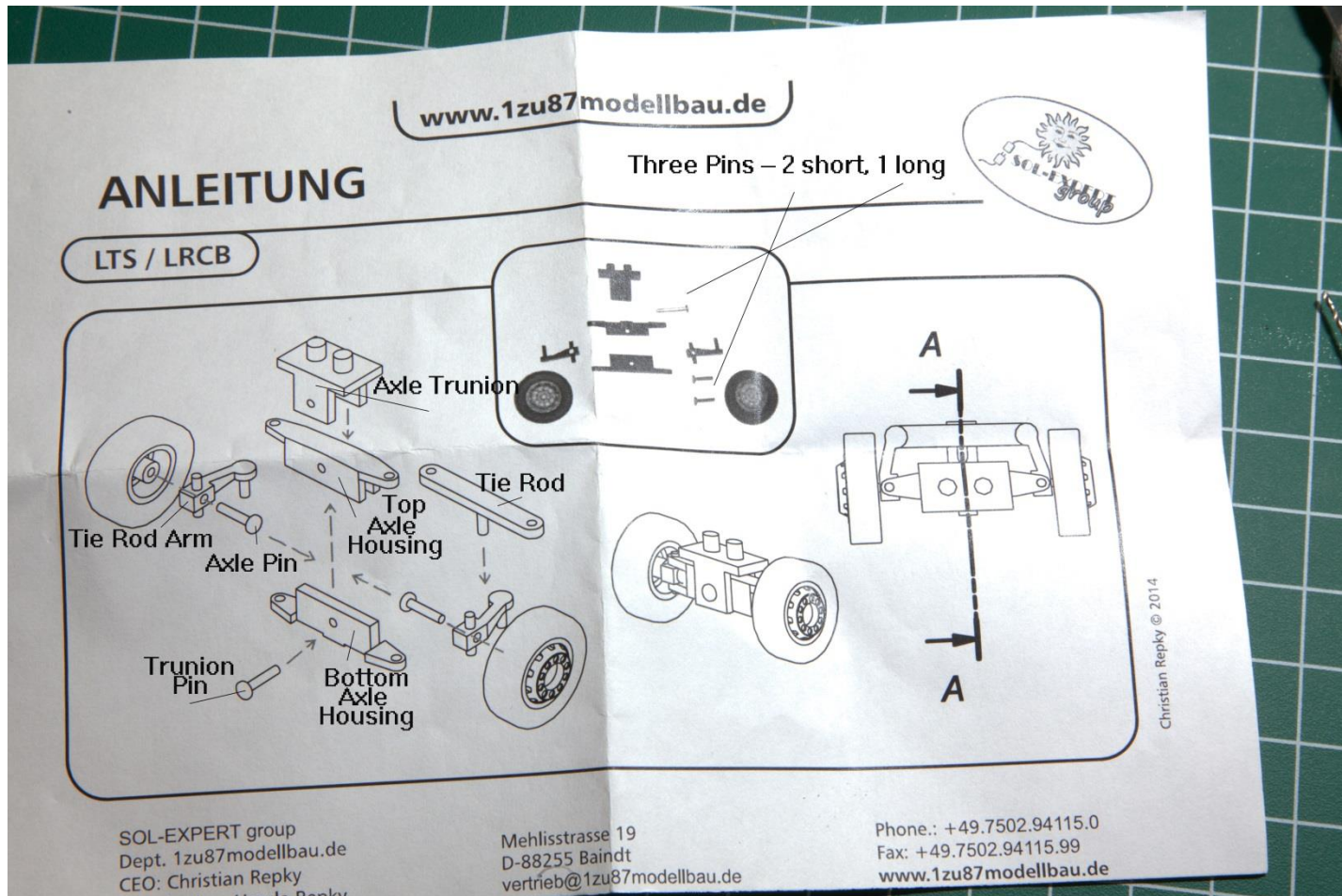
**Using a 1 mm bit, Open all the
holes in the Steering Parts**



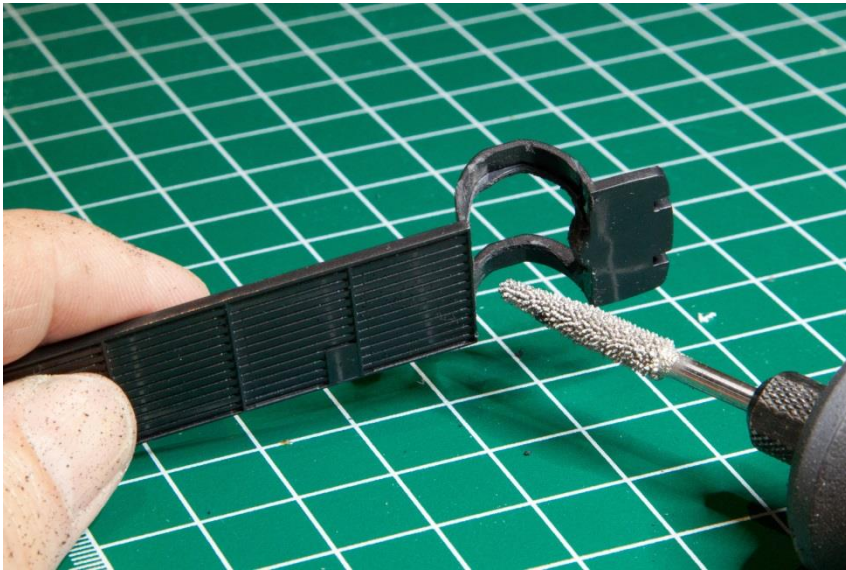
**Without Gluing – Assemble
the Steering Mechanism**



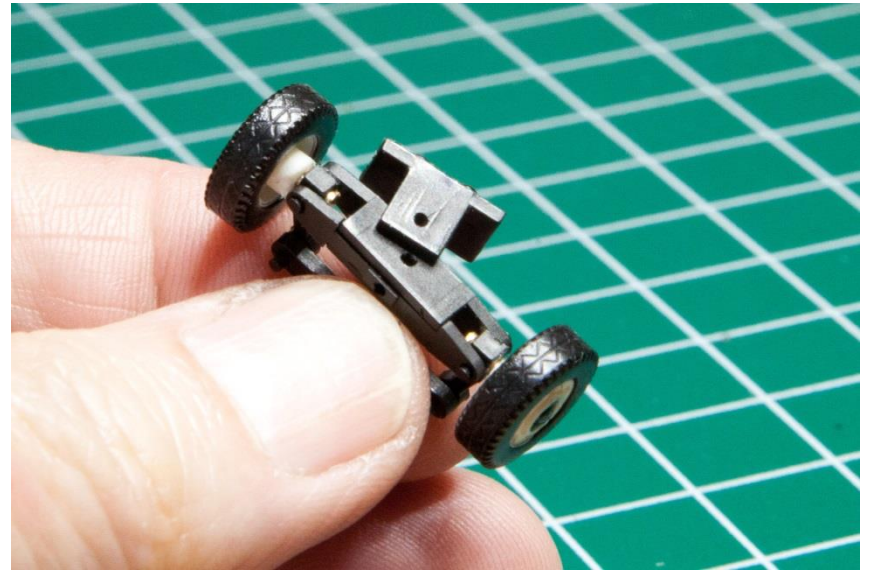
Installing the Steering Mechanism



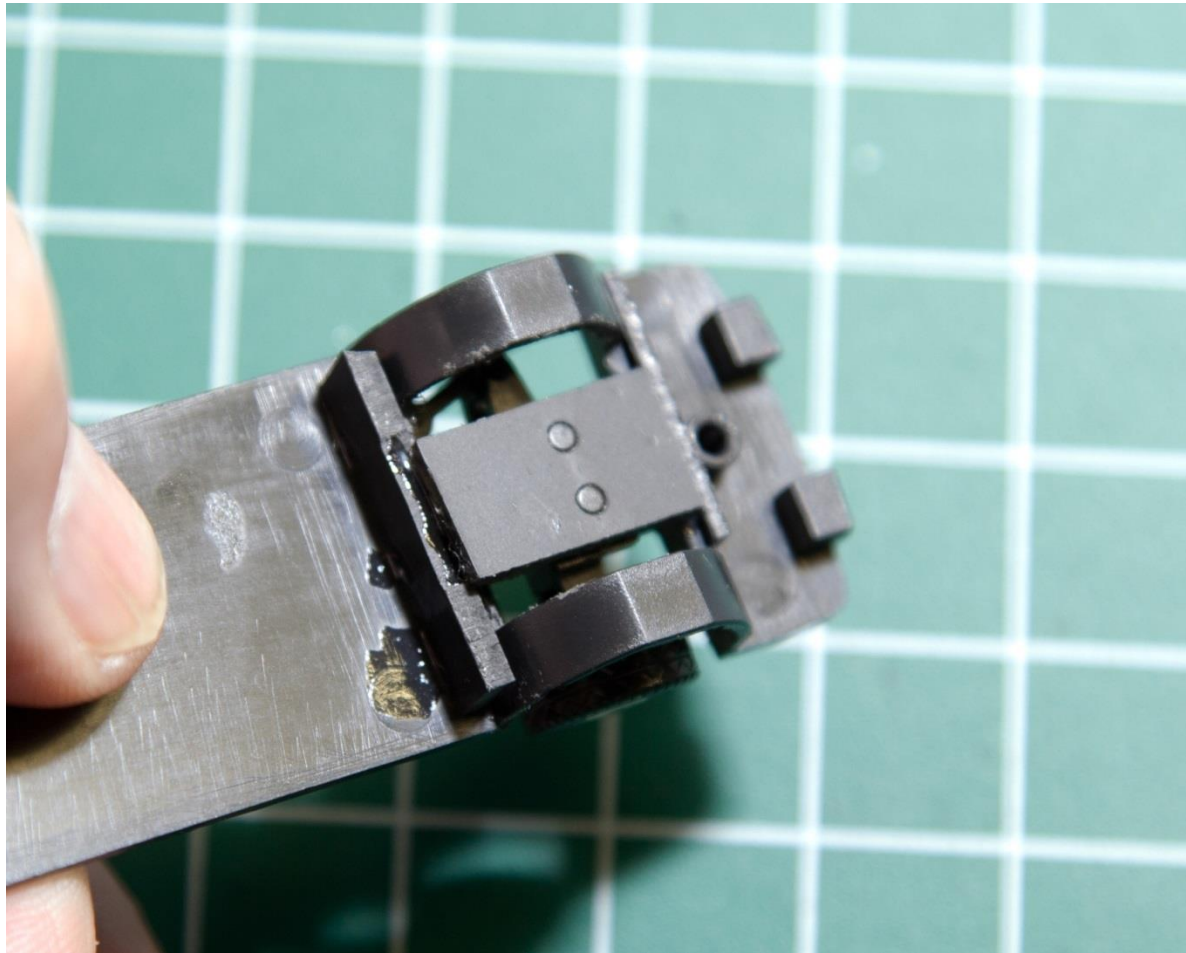
**Use a File or Dremel to Clean
Wheel Well in Front End of Bus**



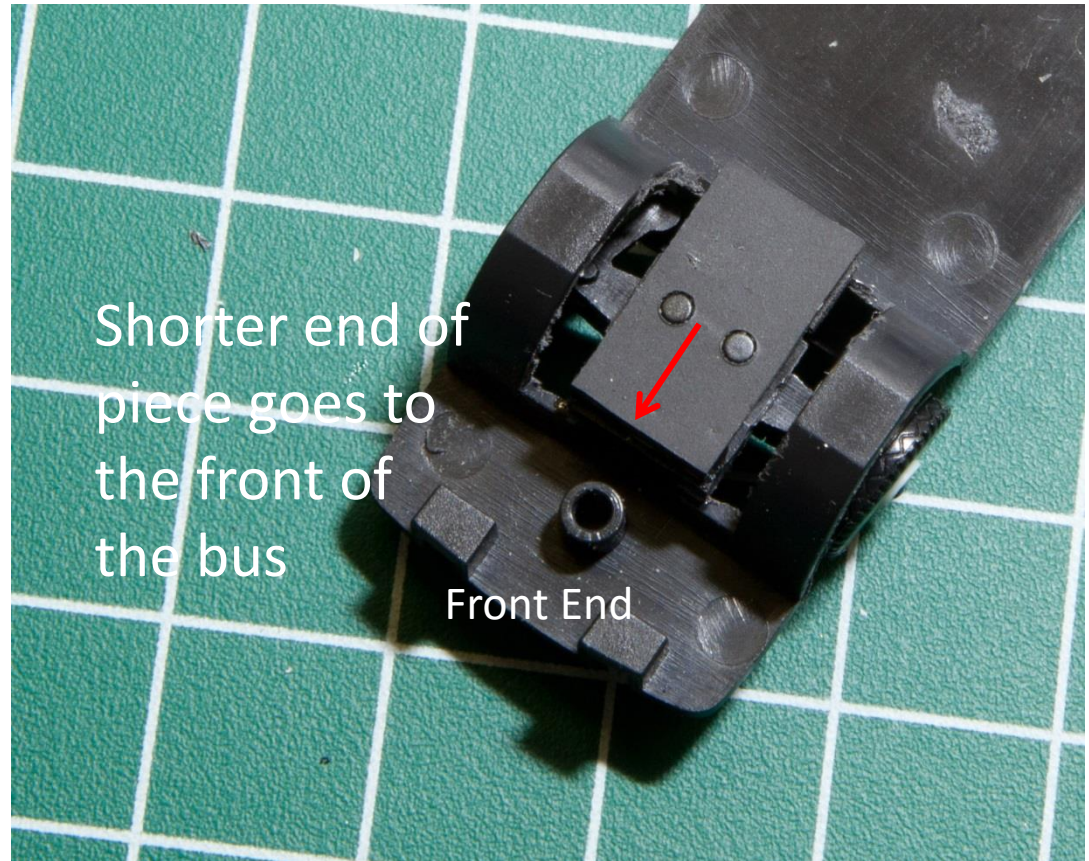
**This is our Steering Mechanism
without the Magnetic Tongue**



Building a Bridge

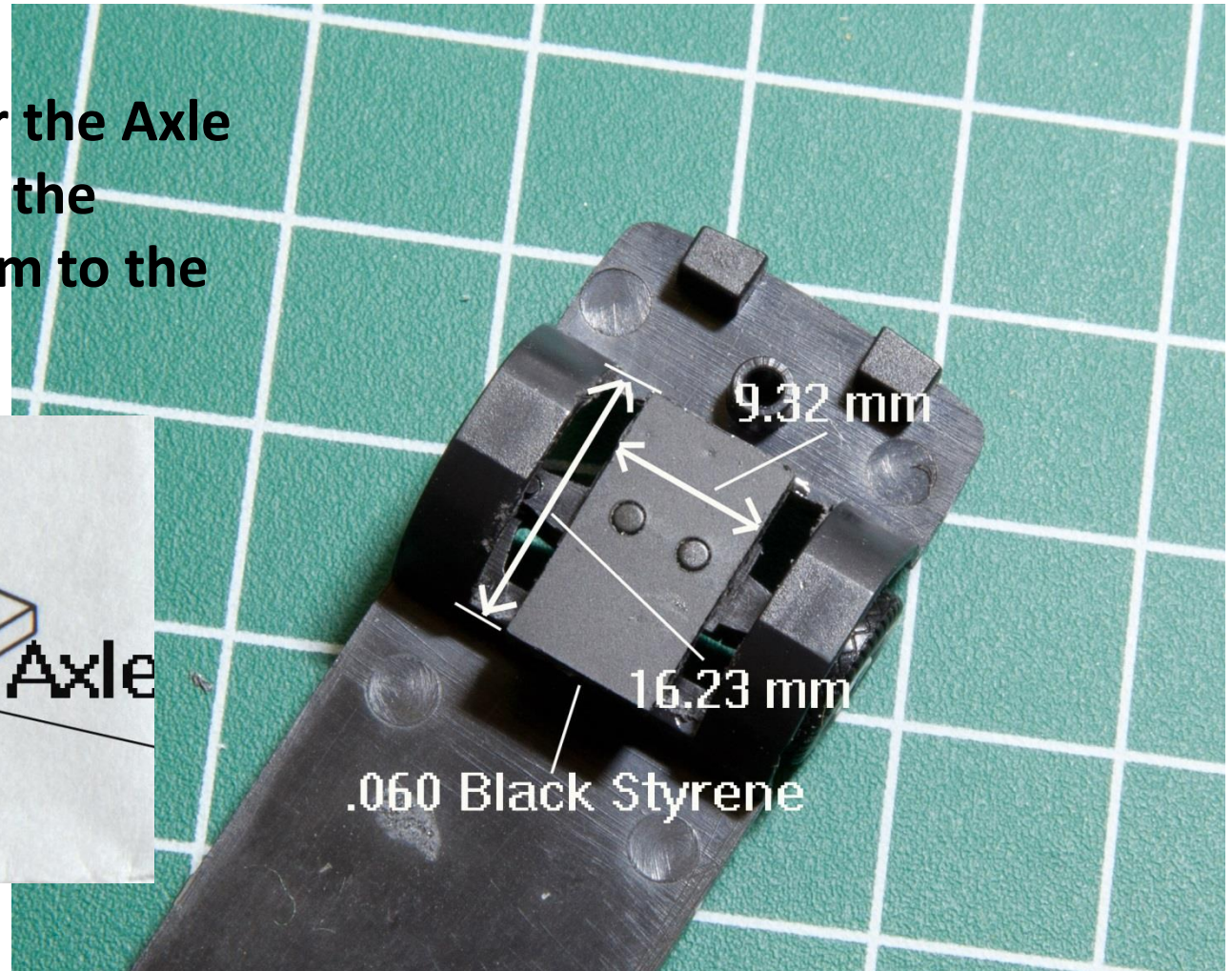
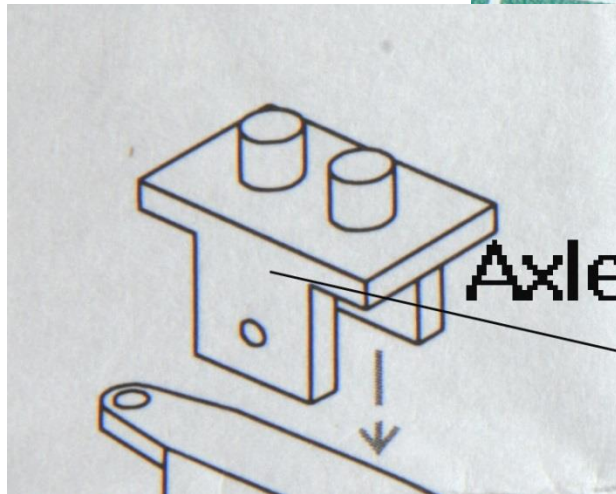


Notice that the holes are not quite centered for and aft. This was done to help center the steering gear when added from the bottom. The shorter distance goes toward the front of the bus.

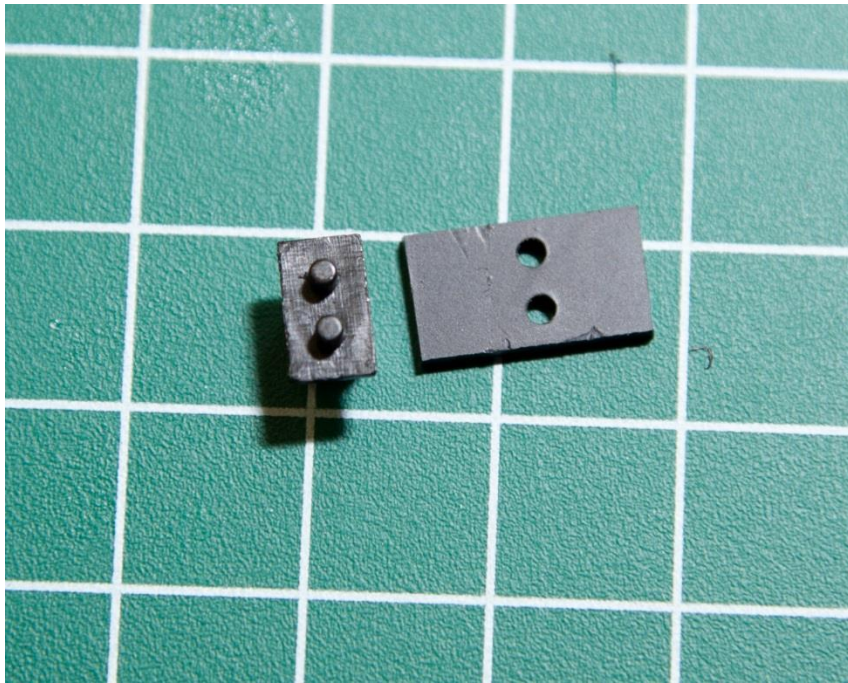


Bridge Plate

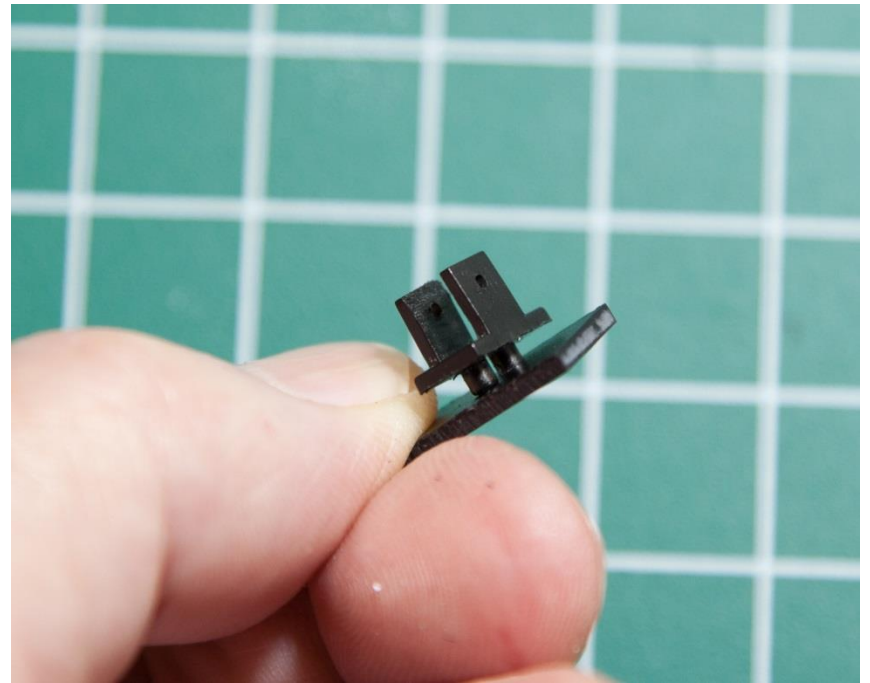
This is the plate for the Axle Trunnion to Attach the Steering Mechanism to the Chassis.



Axle Trunnion & Bridge Plate

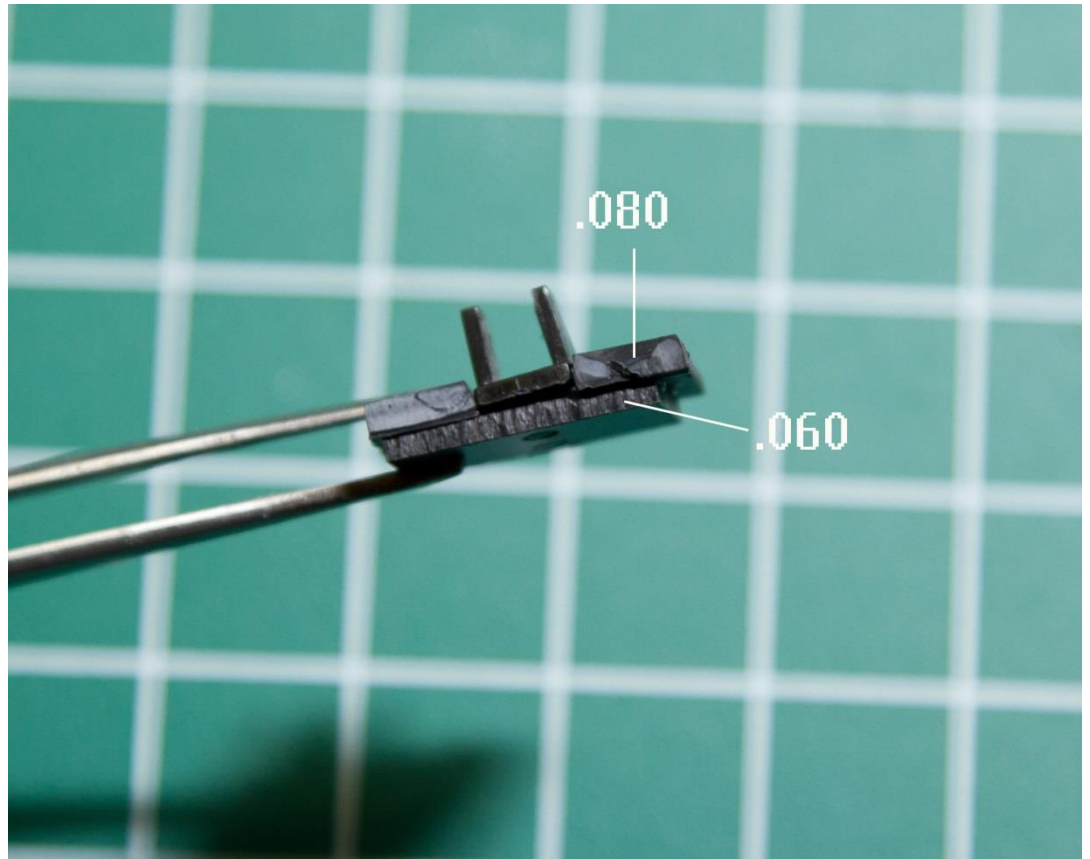


Press Fitted

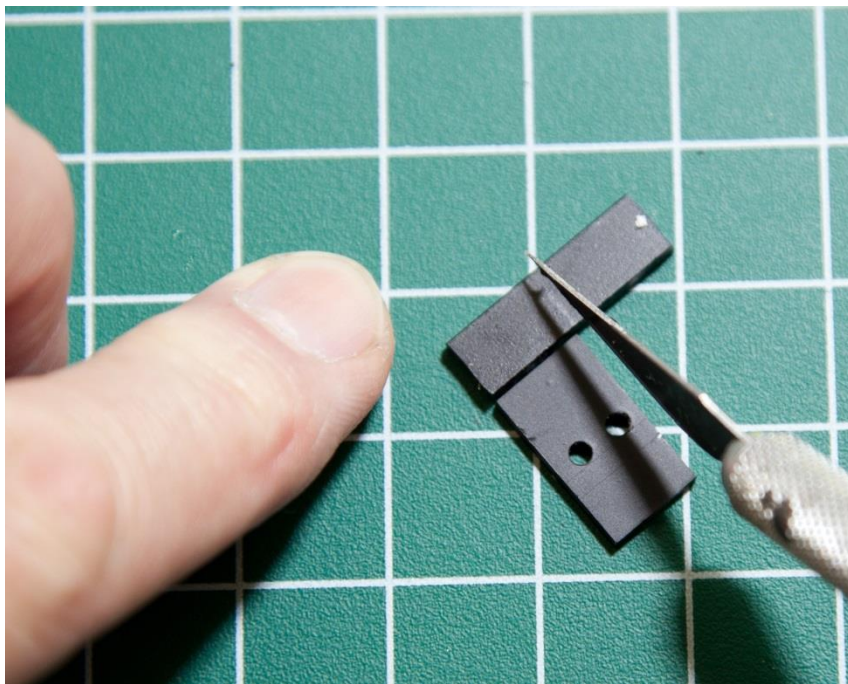


Bridge Abutments

The Bridge Plate is made from .060 black styrene. The Abutment is two .080 piece of black styrene added front and back bottom part of the bridge.



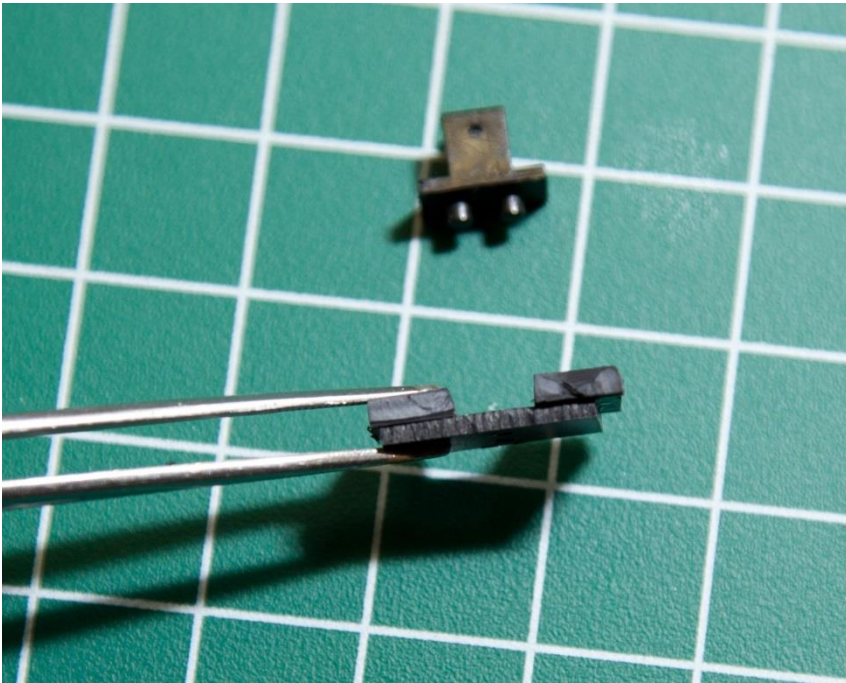
**Cut to match width of Bridge
Plate**



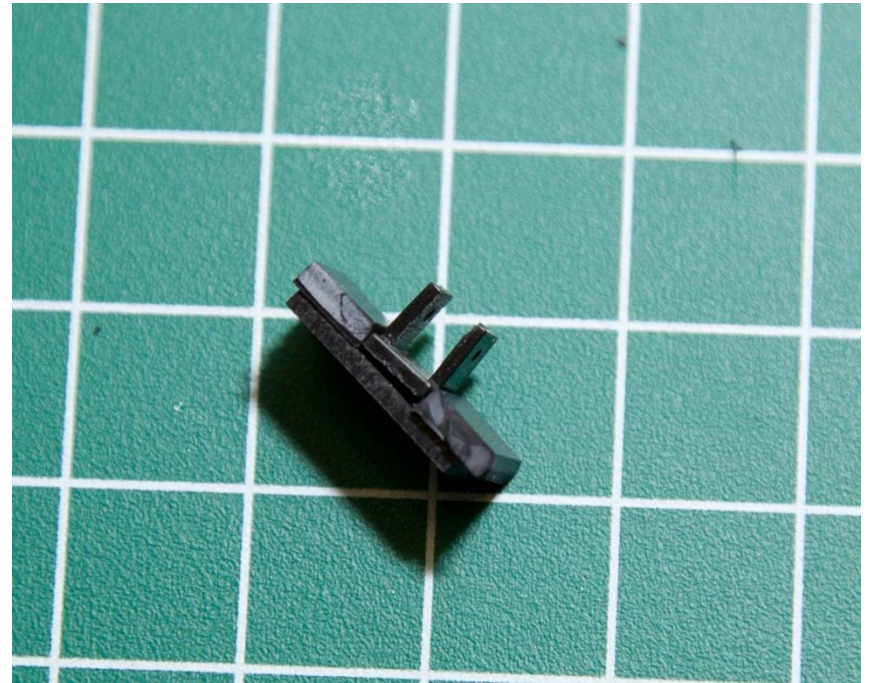
**After Cut, Glue to Bridge Plate
bottom but NOT to the Trunnion**



**Trunnion Separated from
Bridge**



Trunnion Married to Bridge

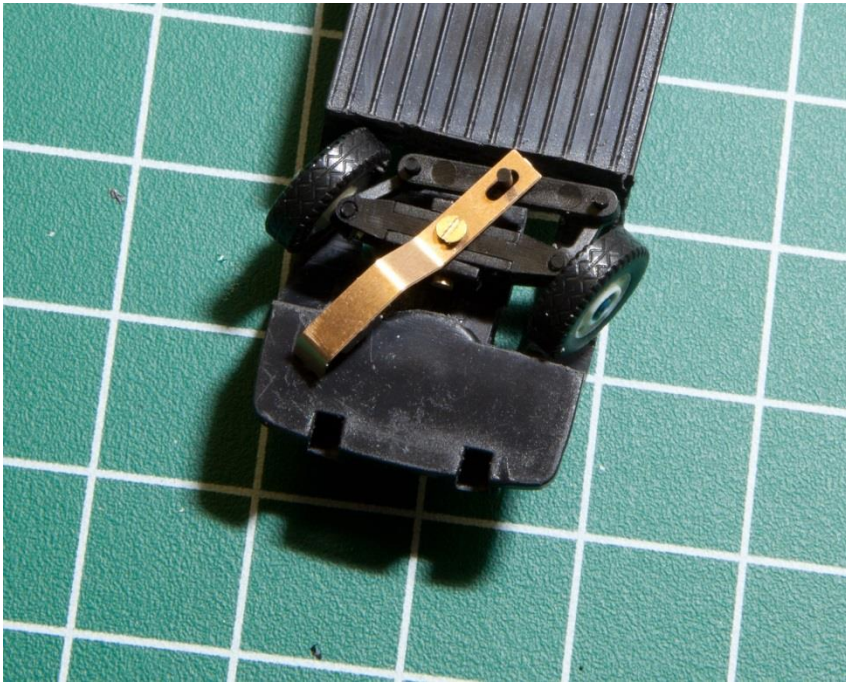


The bridge must be set at the correct height to allow the wheels to turn in the wheel well and to look prototypical.

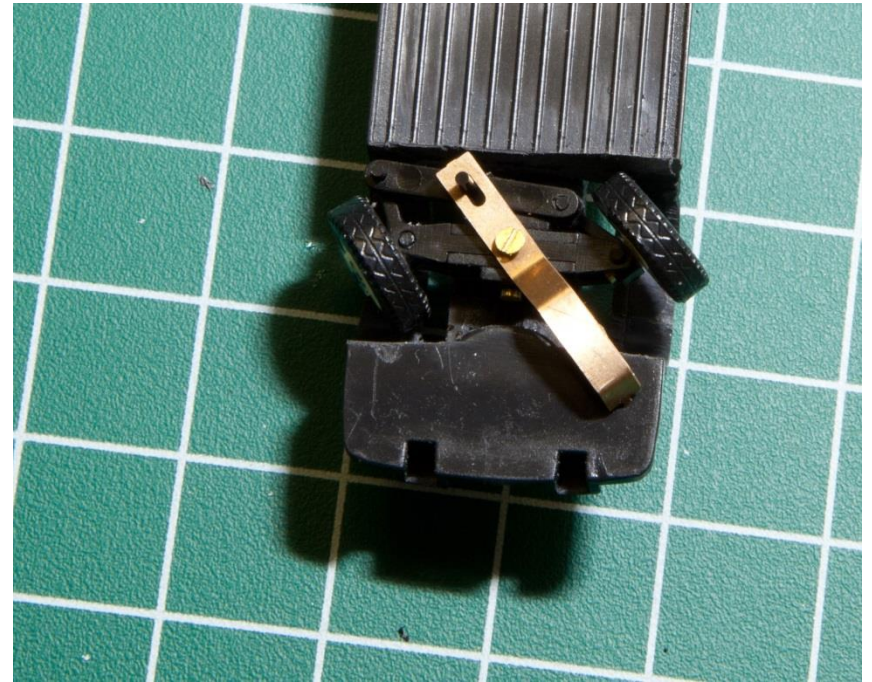


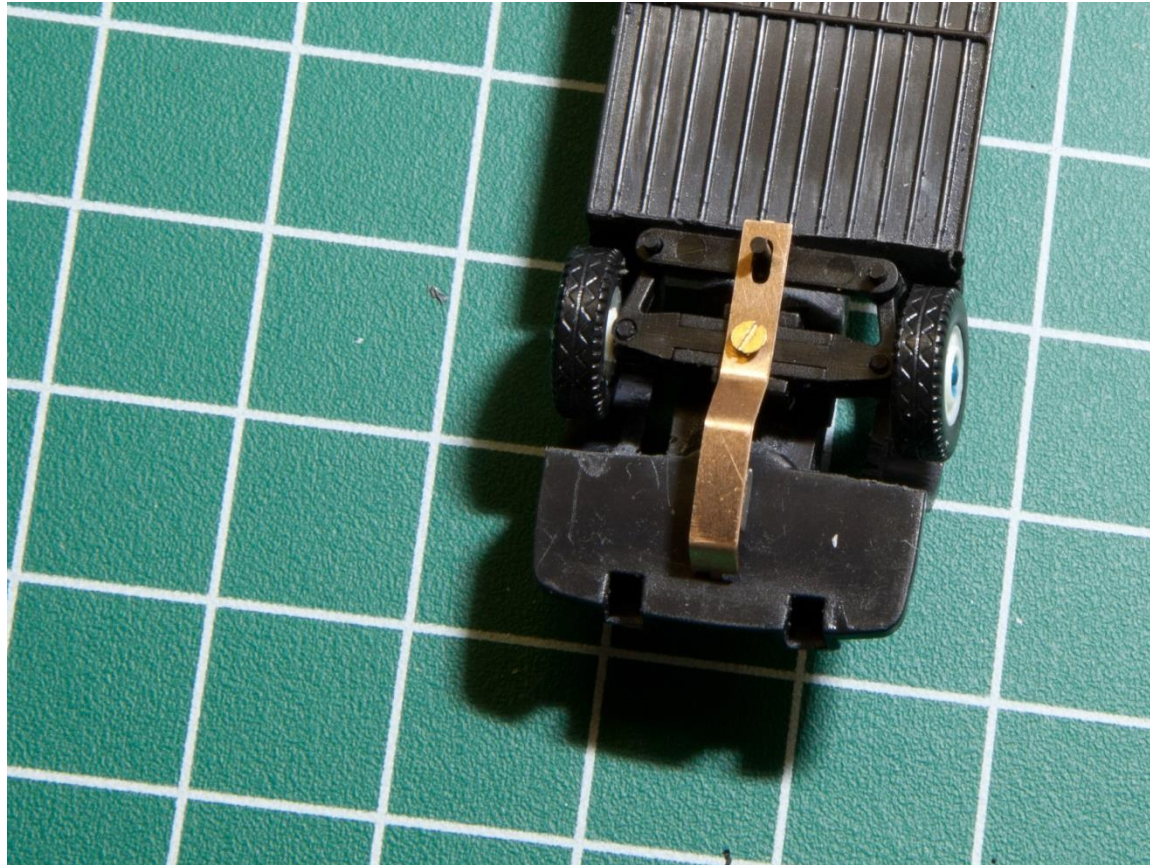
Proper Clearance in Both Directions

Wheels clear



Tie Rod Clear





Tie Rod does not touch frame with wheels straight

Notice Hub reduction brings wheels within the bus chassis --- if the hub is not reduced (wheels from the static bus) then the wheels will extend beyond the chassis, left and right.

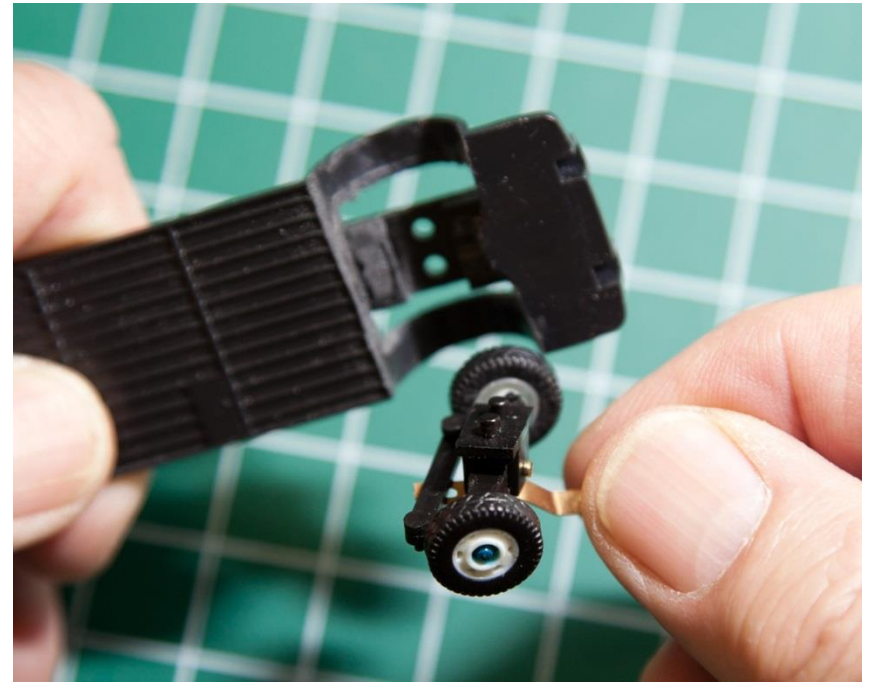
Tighten the screw on the magnetic tongue so that it does not move while you are installing the steering mechanism. Then while holding the mechanism by the tongue and looking through the bridge holes, align the nipples and, using your thumb from the bottom of the mechanism, press the mechanism into the holes. **HOLD THE BRIDGE IN PLACE FROM THE TOP** to keep the bridge from coming loose.

- **Instructions for Installing the Steering Mechanism into the Chassis Front Steering Well**

**Hold Steering Mechanism
by the Magnetic Tongue**



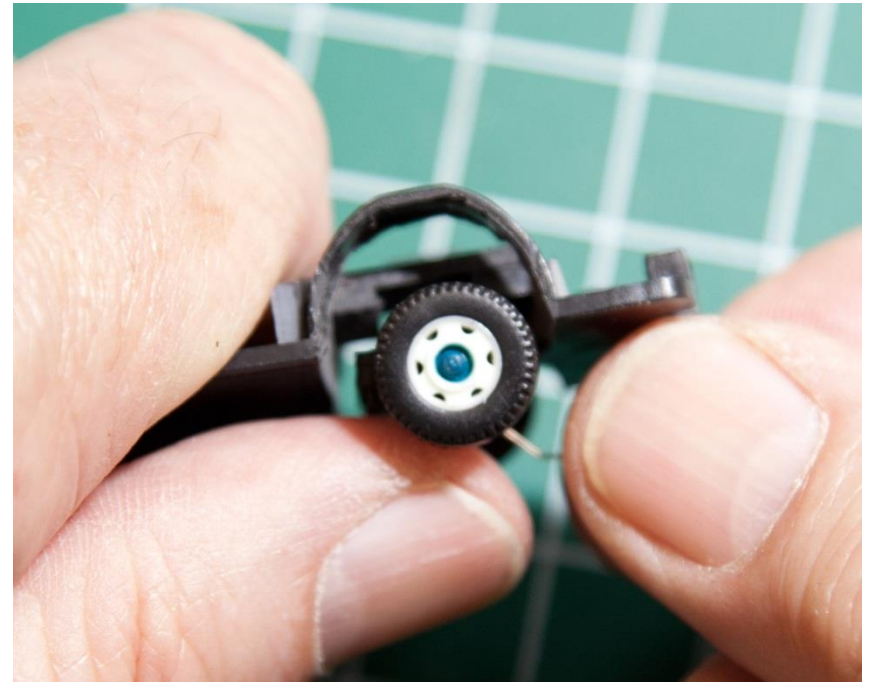
**Bring the Chassis up and
Marry the Nipples on the Axle
Trunnion to the holes in the
Bridge**



**Once Side of the Two Pieces
Joined**



**Using Your Thumb on the
Bottom of the Steering
Mechanism, Carefully Press
the Two Together**



I think it is best not to glue the steering into the bridge. I like the ability to use the #11 blade to gently pry the steering mechanism out of the bridge in case of repairs.

